Index to Signal

Volume 38 September 1983 through August 1984

Title	Issue	Page
A		
1. ACCS: A Challenge and an Opportunity	Dec.	72
2. AFCEA Far East Office	Mar.	77
3. AT&T Bell Laboratories: A Proven Resource, A New Mission	June	32
4. Ada: A Solution to an Often Unrecognized Problem	July	22
5. Adequate C³I	May	50
6. Advancing C³: A View from OSD	May	123
7. Affect Information Systems in Future Military Decision Making	Oct.	23
8. Air Force Information Systems: A Look Back	July	45
9. Anti-Ship Cruise Missiles	Dec.	48
10. Application of Decision Aid Technology to Command and Control, The	Mar.	43
11. Army Tactical SIGINT and EW	Apr.	43
B		
12. Banquet Address	Aug.	32
13. Beyond BETA: Tactical Intelligence Fusion Systems in Transition	Oct.	19
14. Breakthrough in Mobile HF Communications: A New Generation of High Power Automatic Antenna Couplers, A	Mar.	71
15. Building Better C³I Systems	Nov.	73
C		
16. CASE: Computer Aided Systems Engineering for C³I Systems	July	15
17. C² in the High Technology Light Division	Nov.	41
18. C³ Challenges in the Southern Region (Statement)	Dec.	24
19. C³ in the Combined Command (Statement)	Feb.	22
20. C³ in the Northern Region and the Maritime Emphasis (Statement)	Dec.	20
21. C³I and D-Day	June	13
22. C³I and the U.S. Central Command	Nov.	23
23. C³I at SHAPE Technical Centre	Dec.	45
24. C³I Decision Aid: Automated Map Display System (AMDS)	Sept.	14
25. C³I in Allied Command Europe	Dec.	81
26. C³I in Civil Government (Statement)	May	62
27. C³I and Space Defense	Oct.	9
28. C³I in the Marine Corps	Oct.	39
29. C³I Requirements and the Long Term Defense Program (Statement)	Dec.	23
30. C³I Research and Development	Jan.	43
31. C³I Systems and Their Role Today (Statement)	May	42
32. C³I Systems Flexibility (Statement)	May	53
33. C³I Technology, People and NATO	Dec.	11
34. C³S in Japan—A Commander's Overview (Statement)	Feb.	16
35. C³S in Japan: Coordination and Change	Feb.	39
36. Career Transition and Career Change: Challenges and Prospects for Communications Professionals	Sept.	45
37. China's National Space Program	June	37
38. Civil Crisis Management (Statement)	May	36
39. Command and Control Warfare—Seizing the Initiative	Apr.	23
40. Comments and Observations on the Status of NATO C³	Dec.	14
41. Computer Assists for Air Force Tactical Air Control Centers	May	111
42. Crisis Stability and C³I	Mar.	11
D		
43. DCA Pacific Area: Tying the Pacific Defense Structure Together	Feb.	35
44. Data Distribution in a Tactical Environment	Nov.	27
45. Defense Satellite Communications System: Another Milestone	Sept.	22
46. Digital Channel Efficiency Model, The	June	69
47. Divestiture and the U.S. Military C³	Mar.	35
48. Dream Coming True Around the World, A	Feb.	12
E		
49. ECM and Satellite Communication Network Control	Apr.	63
50. EMP: What It Is and What To Do About It	June	55
51. EW in Operational Testing	Apr.	29
52. Economic Prospects for the Asian-Pacific Region	Feb.	31
53. Effective C³I For Crisis Management (Statement)	May	42

54. Effective NATO Task Force, An (Statement) ..... Dec. 26
55. Electronic Technology: A Key to Free World Security and Peace ..... Jan. 15
56. Electronics Industry in Transition, The ..... Jan. 49
57. Embedded Computer Dependencies . Jan. 69
58. Enhancing National Security and Emergency Preparedness (Statement) May 33
59. Evolutionary Army C³I Acquisition Process ..... Aug. 48
60. Evolutionary Development of C³I Systems ..... July 60
61. Executing Effective Command and Control ..... Dec. 28

F

62. FAA R&D for the NAS Plan ..... June 49
63. FAA Telecommunications Planning in Support of the National Airspace System Plan (NASP) ..... Aug. 89
64. FCC Hosts International Telecommunications Training ..... Sept. 61
65. FEMA: Information Processing in Emergency Preparedness ..... July 35
66. FOTS (LH): The Army's Long Haul Fiber Optic Transmission System ... Nov. 31
67. Fibre Optic Applications in the Korea Improvement Program ..... Feb. 63
68. Fibre Optics ..... Aug. 64
69. Foreign Affairs Crisis Management (Statement) ..... May 56
70. Free World Resolve ..... Feb. 15
71. Fresh Look at Purple Dragon, A .... Apr. 17
72. Fusion Centers ..... May 131
73. Future of NATO C³, The (Statement). Dec. 17

G

74. Guest Commentary ..... Nov. 15

H

75. Health of U.S. Intelligence, The (Statement) ..... May 32

I

76. Implementing Secure Communications Software: The SCIAT Approach Oct. 45
77. Increasing Intelligence Awareness... Oct. 12
78. Indian Ocean: Trade and Defense, The ..... Sept. 13
79. Industrial Luncheon Address ..... Aug. 34
80. Information Requirements (Statement) ..... May 62
81. Information Security ..... Apr. 15
82. Intelligence and Communications—Keys to AirLand Battle 2000 ..... Oct. 31
83. Intelligence, Radioelectronic Combat and the C³ Process ..... Oct. 35
84. Intelligence Support to NATO ..... Dec. 87
85. Intelligence Support to the Air Force: Now and in the Future ..... Oct. 27
86. Intelligence: The Force Multiplier in Crisis (Statement) ..... May 64
87. Interoperability—The Key to C³ Systems in Support of USPACOM ..... Feb. 25
88. Interview with Dr. George Keyworth, II ..... June 16
89. Interview with Donald C. Latham... Mar. 16
90. Introduction to Electrooptical Warfare, An ..... Apr. 35

K

91. Keynote Luncheon Address ..... Aug. 24

L

92. Local Area Network for NATO War Headquarters, A ..... May 137
93. Local Area Networks: A System View ..... Sept. 37

M

94. Macro Look at Micros for C³I and Support Roles, A ..... May 155
95. Managing Air Force E&I: The Engineering Installation Center Does It All Sept. 29
96. Managing C³I (Statement) ..... May 46
97. Maturing of C³I Policy, The ..... Apr. 13
98. Meeting the C² Challenge (Statement) May 58
99. Military Applications of Artificial Intelligence ..... June 45
100. Military Connotations of Undersea Telecommunications Systems ..... Dec. 91
101. Military Radar Technology ..... Oct. 41
102. Missile Deception at Sea ..... Apr. 69
103. Modernizing the Strategic Triad..... May 99

N

104. NATO's C³ Program ..... Dec. 37
105. NSTAC ..... May 71
106. National Airspace System Telecommunications (Statement) ..... May 31
107. National Coordinating Center ..... July 11
108. Naval C³ in Crisis Management (Statement) ..... May 47
109. Naval Electronic Combat ..... Apr. 39
110. Nodes of Knowledge: Personal Computers in the Military ..... July 55

O

111. Of JINTACCS and Jabberwocks .... Nov. 55
112. One Army—One Way ..... Feb. 69
113. Options for the European Theatre Air Command and Control System..... Dec. 75
114. Overview of the Pacific Fleet, An (Statement) ..... Feb. 19

P

115. Pacific Underseas Cables Play Vital Role in Communications Networks.. Feb. 81
116. Planning, Organizing and Controlling C³I (Statement) ..... May 60
117. Political and Economic Ties in the Far East (Statement) ..... Feb. 21
118. Prepare for the Unexpected (Statement) ..... May 54

Q

119. "Quantum Leap": Force Modernization Through Tactical Communications ..... Nov. 17
120. Quick Reaction Requirement (Statement) ..... May 46

R

121. RITA—A Modern Response to Battlefield Communications Needs ..... Mar. 26
122. Reins of Command in the Pacific.... Feb. 73
123. Responsive C³I (Statement) ..... May 64
124. Role of Weather Support in Command and Control, The..... Mar. 55

S

125. S.999: Meeting the Needs of National Defense..... Sept. 52
126. Satellites and Education: An Alternative..... Jan. 65
127. Secure Voice Capability (Statement). May 38
128. Silicon Technology: New Hope for the Paralyzed to Walk Again ..... Jan. 30
129. Smart Cart: Technologies, Applications and the Future, The ..... May 81
130. Software Acquisition Management .. Jan. 59
131. Software Development..... July 13
132. Software Test and Evaluation in DOD July 27
133. Space: Air Force and Navy Outlook Jan. 22
134. Space-Based Defense..... Jan. 39
135. Space-Based Systems..... May 32
136. Space Jurisprudence..... Nov. 13
137. Strategic Computing..... Aug. 103
138. Strength and Vitality of AFCEA, The May 17
139. Sustaining Members' Luncheon Address ..... Aug. 30
140. System Assurance in Program Management..... July 38

T

141. Tactical C³I & the Chemical Warfare Environment ..... Nov. 67
142. Tactical Communications Within the Australian Army ..... Nov. 49
143. Technology and the Defense of Western Europe ..... Mar. 49
144. Technology: The Main Engine of Social Change..... June 27
145. Technology Transfer—Is There a Middle Ground..... May 19
146. Telecommunications Facilities in the Pacific—The Coming Abundance.... Feb. 75
147. "3rd C" in Korea, The ..... Feb. 47
148. Threat and the Need for Intelligence, The..... Oct. 11

U

149. USAWESTCOM: Reaching for Excellence..... Feb. 20
150. U.S. Pacific Fleet C³ Organization .. Feb. 71

V

151. Voice Messaging: A New Investment. July 31

W

152. Western Europe's Evolving Approach to NATO..... Aug. 13

ITT Mackay

MSR 8000
HF Tactical Radio Set

- Frequency Synthesized 1.6-30 MHz, 125W
- Parkhill/Data Burst Compatible
- Lightweight, Portable
- Rugged Para-Military Design
- Field Programmable Channels
- Efficient Automatic Antenna Coupler
- Modular Design for Ease of Maintainability
- User Friendly Replacement for AN/FRC-93 (KWM-2A)

ITT Mackay
5301 Departure Drive/Raleigh, North Carolina 27604 U.S.A.
Telephone (919) 872-9103/Telex 4612018

Author Index

The numbers in the listing below refer to the numbers of the title index on pages 119–121.

A

AT&T Technologies..... 68
Abrahamson, LTGen. James A., USAF..... 12
Albrecht, Albert 62, 106
Ansell, Robert J..... 140
Arbogast, Col. Gordon W., USA..... 56
ARINC Research Corp..... 63

B

Babcock, Dr. James H..... 7
Barber, Richard J. 146
Beggs, James M..... 135
Bolino, John V..... 132
Boyd, Dr. Joseph A. 79
Boyes, Dr. Jon L..... 21, 27, 33, 42, 48, 55, 78, 97, 107, ...136, 145, 152

C

Calo, Vincent J. 151
Campbell, Bruce J..... 65
Carter, William W..... 50
Carwise, Col. Edward R., USAF 8
Case, Maj. R.M., USAF..... 111
Casey, William 75, 148
Cassity, BGen. James S., Jr., USAF 95
Chalfont, The Right Honorable Lord, PC OBE MC 143
Chan, C. Chiu 66
Cittadino, John 6
Clark, 1Lt. Delores, USAF .. 10
Conticello, Claudio..... 14
Cook, Vincent N..... 131
Crowe, Adm. W.J.,Jr., USN. 70

D

Dawson, Commissioner Mimi W. 58, 125, 144
Defense Advanced Research Projects Agency(DARPA) . 137
Deeley, Walter G..... 71
DeMarinis, Bernard D. 67
Deygout, MGen. Jacques 121
Donnelly, LTGen. Charles L., Jr., USAF..... 34

E

Eidson, Robert A. 24
Eisner, Dr. Howard 16
Elliott, Ron 57
Erdrich, Charles L. 129
Ethington, Dave 101

F

Faurer, LTGen. Lincoln D., USAF 81
Foley, Adm. S.R., Jr., USN . 114
Fox, James W. 47
Fox, Myron 119
Freeh, James L. 113
Fukumoto, Benjamin 115

G

Gallina, Maj. Charles, USMC 28
Garber, Dr. V..... 73
Garcia, LTC. Alfred R., Jr., USA..... 45
Gates, Harvey M..... 47
Giuffrida, Louis O..... 38
Graff, B..... 44
Grann, Gary..... 1
Greinke, Everett D. 25
Guenther, John J..... 28

H

Hall, Col. Dennis C., USA... 112
Harris, BGen. Bruce R., USA 17
Hartinger, Gen. James V., USAF 133
Hartog, Air Commodore J.... 1
Haver, Richard L. 83
Herres, LTGen. Robert T., USAF 127
Hershey, John E. 47
Hilsman, LTGen. William J., USA 45, 125

I

Inman, Adm. Bobby R., USN (Ret.)..... 77

J

Jacobs, Alice D. 36
Jacobson, D.C. 76
Jing, Zhaoqian..... 37
Johnson, John 11

K

Keyworth, Dr. George, A. II 88, 134
Kind, Col. Peter A., USA.... 147
Kingston, LTGen. Robert C., USA..... 22
Kirkpatrick, Col. Kenneth A., USAF (Ret.) 41
Klein, Dr. T..... 44
Krzysiak, David 46

L

Lamar, BGen. Kirby, USA (Ret.)..... 94
Lang, MGen. Vaughn O., USA 87
Latham, Donald C..... 89
Laurence, Capt. James D., USN 150
Lawson, Sir Richard, Gen. UKA..... 20
Lee, LTGen. James M., USA 149
Leiner, Dr. Barry 44
Ludwig, Col. Robert H., USAF 122
Lynn, BGen. Robert G., USA 74

M

MacLaren, MGen. William G., Jr., USAF 29
Magnant, Robert S. 126
Manning, A.P. 53
Markey, David J. 31
Marks, MGen. John B., USAF 51, 85
Marquis, Dennis C. 40
Mayuga, Col. Leonardo A. 2
McCarthy, MGen. Robert F., USAF 96
McCracken, W. Michael 132
McDonald, Adm. Wesley L., USN 9
McKnight, LTGen. Clarence E., Jr., USA 120
Meyrowitz, Dr. Alan L. 99
Millburn, Dr. George P. 23
Miller, Franklin C. 103
Minkel, Edward J. 64
Mondrick, Alexander G. 66
Mordowitz, Victor 66
Morrison, Maj. J.S., USAF 111
Murfin, Maj. Robert R., USA 82
Murphy, Eugene F. 138

N

Nagler, VAdm. Gordon R., USN 108, 133
Nelson, BGen. Thomas C., USN 4
Noggle, LTC. Philip L., USMC (Ret.) 39

O

O'Malley, Gen. Jerome F., USAF 117

P

Paige, MGen. Emmett, Jr., USA 5
Pape, Joseph, Jr. 46
Peebles, K.A. 30
Pepper, Thomas 52
Petrofsky, Dr. Jerrold S. 128
Phillips, Dr. Chandler A. 128
Pollock, David H. 90
Powers, LTGen. Winston D., USAF 32, 105
Prather, MGen. Gerald L., USAF 118
Preston, H.F. 100
Price, Col. Richard M., USAF, (Ret.) 141

R

Raggett, Robert J. 15
Ribera, Robert C. 69
Riedl, Patrick H. 60
Rockwell, MGen. James M., USA 98
Rodgers, MGen. Thurmon D., USA 116
Romano, Gen. Frederico V. 72
Ross, Ian M. 3
Rummans, LTC John A., Jr., USAF (Ret.) 140

S

Salisbury, BGen. Alan B., USA 13
Sargent, Col. Terrence D., USA 43
Saunders, Dr. Barbara B. 141
Schenk, Maj. Horst A., USAF (Ret.) 124
Schneider, MGen. Guenther R.G., (Ret.) 104
Sennewald, Gen. Robert W. 19
Shick, RAdm. George B., USN 80
Shively, Capt. Stephen D., USAF 92
Shriver, Richard H. 26
Shugoll, Eugene L. 110
Slack, BGen. Paul D., USMC 123
Small, Adm. W.N., USN 18
Spellman, Marc I. 49
Stanley, Col. Verl R., USAF (Ret.) 39
Staveley, Sir William, KCB Adm., UK 54
Steigerwald, 1Lt. Robert, USAF 10
Stone, Norman L. 109

T

Thomas, LTC A.R., RASigs 142
Treiber, Arthur E. 130
Turner, Dennis J. 4

U

United States Army, The 59

V

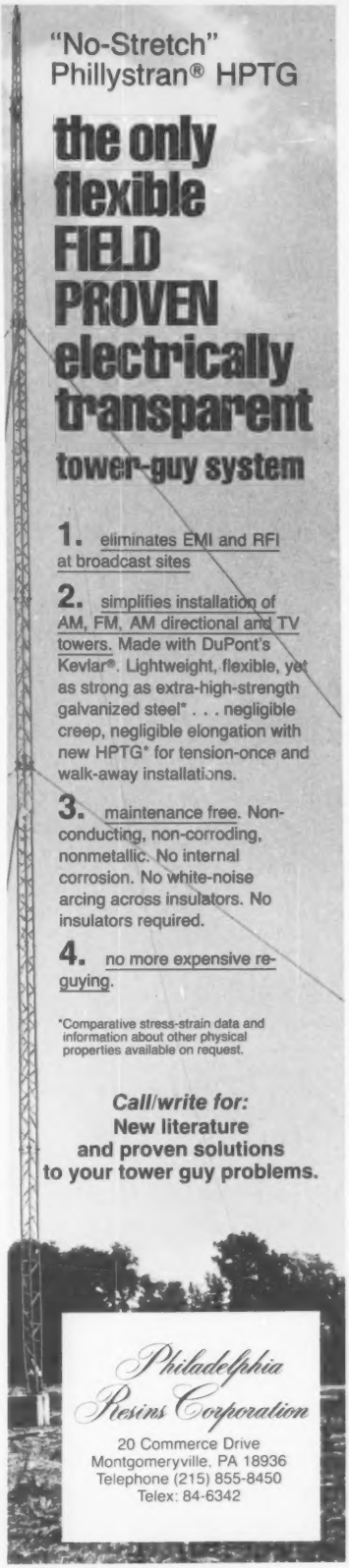
von Senger und Etterlin, Dr. Ferdinand, Gen., FRG 61

W

Walker, Stephen T. 93
Wanner, 2Lt. Eleonore, USAF 10
Warner, Senator John W. 139
Weatherbie, Col. Neil K., USAF 35
Weinberg, Murray 66
White, Dr. John B. 102
Wickham, Gen. John A., Jr., USA 91
Williams, I TGen. James, USA 84, 86
Williamson, R.L. 100
Worthy, R. Milt 7

Y

Yaru, Dr. Nicholas 41


"No-Stretch"
Phillystran® HPTG
the only flexible FIELD PROVEN electrically transparent tower-guy system
1. eliminates EMI and RFI at broadcast sites
2. simplifies installation of AM, FM, AM directional and TV towers. Made with DuPont's Kevlar®. Lightweight, flexible, yet as strong as extra-high-strength galvanized steel* . . . negligible creep, negligible elongation with new HPTG* for tension-once and walk-away installations.
3. maintenance free. Non-conducting, non-corroding, nonmetallic. No internal corrosion. No white-noise arcing across insulators. No insulators required.
4. no more expensive re-guying.
*Comparative stress-strain data and information about other physical properties available on request.
Call/write for:
New literature
and proven solutions
to your tower guy problems.
Philadelphia Resins Corporation
20 Commerce Drive
Montgomeryville, PA 18936
Telephone (215) 855-8450
Telex: 84-6342